

CIRCUIT TYPE					CURRENT FLOW IN AMPS																
10% VOLTAGE DROP Non Critical		3% VOLTAGE DROP Critical																			
CIRCUIT LENGTH	0 to 20 ft.	0 to 6.1 M	0 to 6 ft.	0 to 1.8 M	5A	10A	15A	20A	25A	30A	40A	50A	60A	70A	80A	90A	100A	120A	150A	200A	
	30 ft.	9.1 M	10 ft.	3.0 M	16 AWG	14 AWG	12 AWG	12 AWG	10 AWG	10 AWG	8 AWG	6 AWG	6 AWG	6 AWG	4 AWG	4 AWG	4 AWG	2 AWG	1 AWG	2 0 AWG	
	50 ft.	15.2 M	15 ft.	4.6 M	16 AWG	12 AWG	10 AWG	10 AWG	8 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG	4 AWG	2 AWG	2 AWG	2 AWG	1 AWG	2 0 AWG	
	65 ft.	19.8 M	20 ft.	6.1 M	14 AWG	10 AWG	10 AWG	8 AWG	6 AWG	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	2 AWG	2 AWG	1 AWG	0 AWG	3 0 AWG	
	80 ft.	24.4 M	25 ft.	7.6 M	12 AWG	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	2 AWG	1 AWG	1 AWG	1 AWG	0 AWG	2 0 AWG	3 0 AWG	
	100 ft.	30.5 M	30 ft.	9.1 M	12 AWG	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	2 AWG	1 AWG	1 AWG	0 AWG	0 AWG	2 0 AWG	3 0 AWG	
	130 ft.	39.6 M	40 ft.	12.2 M	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	1 AWG	0 AWG	0 AWG	2 0 AWG	2 0 AWG	3 0 AWG	4 0 AWG	
	165 ft.	50.3 M	50 ft.	15.2 M	10 AWG	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2 0 AWG	2 0 AWG	3 0 AWG	3 0 AWG	3 0 AWG	4 0 AWG		
	200 ft.	61.0 M	60 ft.	18.3 M	10 AWG	6 AWG	6 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2 0 AWG	3 0 AWG	3 0 AWG	3 0 AWG	4 0 AWG	4 0 AWG	4 0 AWG		
			70 ft.	21.3 M	8 AWG	6 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2 0 AWG	3 0 AWG	3 0 AWG	4 0 AWG	4 0 AWG	4 0 AWG				
			80 ft.	24.4 M	8 AWG	6 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2 0 AWG	3 0 AWG	4 0 AWG	4 0 AWG						
			90 ft.	27.4 M	8 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2 0 AWG	3 0 AWG	4 0 AWG								
			100 ft.	30.5 M	6 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2 0 AWG	3 0 AWG	4 0 AWG								
			110 ft.	33.5 M	6 AWG	4 AWG	2 AWG	1 AWG	0 AWG	2 0 AWG	3 0 AWG	4 0 AWG									
			120 ft.	36.6 M	6 AWG	4 AWG	2 AWG	1 AWG	0 AWG	2 0 AWG	3 0 AWG	4 0 AWG									
			130 ft.	39.6 M	6 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2 0 AWG	3 0 AWG	4 0 AWG									

Standard and Metric Wire Comparison Table

Available Wire Size AWG

Available Wire Size Metric

16

1.5

14

2.5

12

4

10

6

8

10

6

16

4

25

2

35

1

50

0

2|0

70

3|0

95

4|0

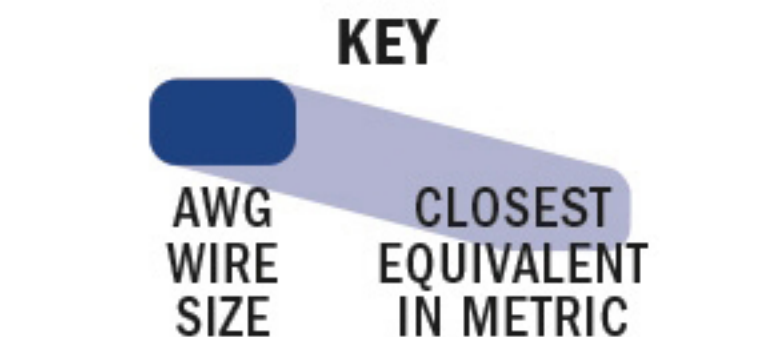
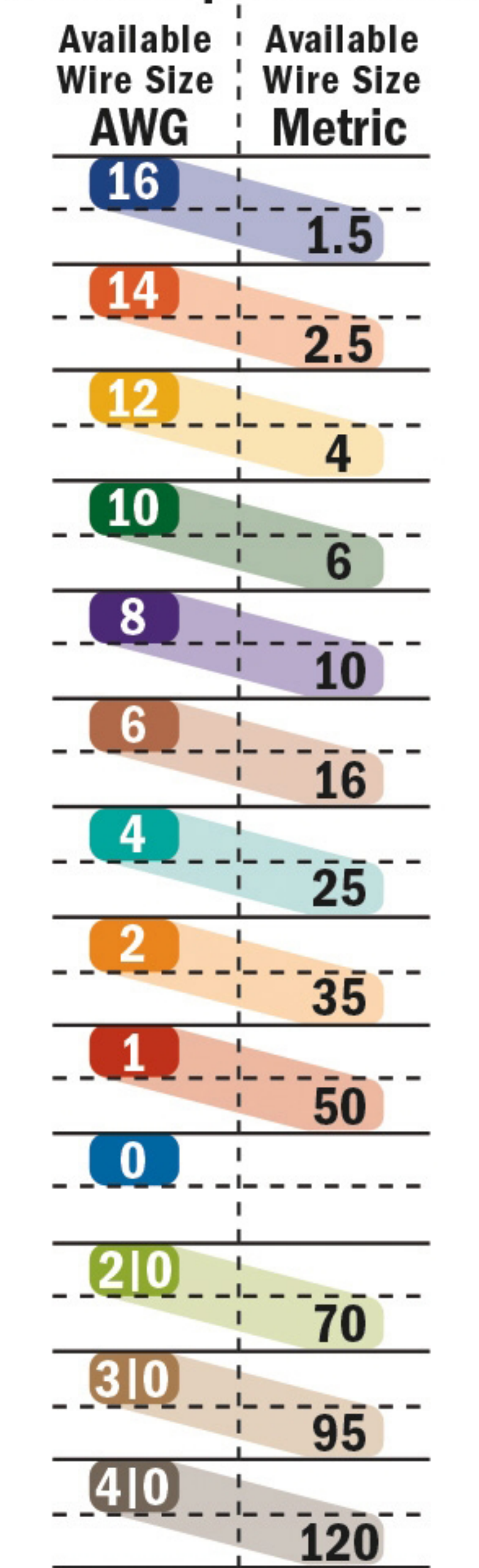
120

KEY

AWG WIRE SIZE

CLOSEST EQUIVALENT IN METRIC

Standard and Metric Wire Comparison Table



Although this process uses information from ABYC E-11 to recommend wire size and circuit protection, it may not cover all of the unique characteristics that may exist on a boat. If you have specific questions about your installation please consult an ABYC certified installer.